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STATE OF MONTANA BULLETIN

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Department of Public Health

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Montana State Board of Health

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HELENA, MONTANA

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An interesting case of Actinomycosis was reported by Dr. Hopkins of Chinook, as having occurred in the practice of Hopkins and O'Malley. The report is in the form of a letter to Dr. M. E. Knowles, State Veterinarian, and is as follows:

The patient was a young man, age 23, of good physique and in splendid health. The only known chance for infection or rather inoculation was about August 20, 1909, when he received some scratches about the face and neck by being thrown into some bull berry bushes.

The trouble did not commence from the jaw, nor has the bone at any time shown any signs of being affected, but later in the trouble the periosteum of the inner half of the right clavicle, and the upper portion of the sternum were affected.

The trouble commenced as a glandular swelling in the neck below the angle of the right jaw. The parotid gland became swollen and very hard, as in mumps. There was very little, if any, constitutional disturbance and as there had been a history of exposure to mumps we let it go at that, and waited. There was no redness at this time nor evidence of inflammatory reaction. The parotid began to get smaller, the swelling began to extend down the neck. The original swollen gland under the angle of the jaw showed slight fluctuation. This was opened September 6th by a free incision and was found to contain a small amount of flocculent pus, but was not followed by the relief expected. Of course there was where we fell down. A microscopic examination of the discharge at this time would no doubt have cleared the diagnosis.

The swelling gradually extended to the sternum. Tissues were indurated, hard and thrown into ridges. The skin over the sternum (upper end) clavicle and anterior portion of neck was a vivid scarlet. Over the swollen ridges from ear to anterior median line of neck the ridges were very dark purple to light red and intensely painful to touch. Where the skin was scarlet it was almost impossible to touch it on account of intense pain.

October 1st. The diagnosis was too easy. We made free incisions, gave potassium iodide in increasing doses, and irrigated with mild solution of copper sulphate.

Had to run the potassium iodide up gradually as he did not stand it well at first. Ran the dose to 120-140-180—and about November 1st to 240 grains a day. There was a gradual im-

provement but for a time it looked as if something more radical would have to be done. At present we have cut the potassium iodide down half. There is no pus or discharge. The discoloration has disappeared. Patient is feeling fine. There is still some induration of subcutaneous tissue.

One thing I have forgotten—wherever incisions were made we would find granulation tissue, and where we could do so a curette was used to remove as much as possible. We could irrigate nearly the whole area from one opening. There was only one fistula found; that was from the first incision, but was not deep, and is now healed.

The special features would seem to be the mode of inoculation; the swelling of the parotid; the intensely tender skin; the lack of any real constitutional disturbance, except from pain, which sometimes caused sleepless nights; the intense coloring of the skin where the tissues were thin; the prompt results from the iodide after the patient was thoroughly saturated.

COMMUNICABLE DISEASES REPORTED FOR THE MONTH OF OCTOBER, 1909.

SMALLPOX—Cases of Smallpox were reported as follows: Flathead 1; Lewis and Clark 2 (1 in Helena); Missoula 6 (3 in Missoula City); Silver Bow 24 (22 in Butte); total, 33; total last month, 13; total last October, 70.

DIPHThERIA—Cases of Diphtheria were reported as follows: Carbon 1; Chouteau 1; Cascade 4 (3 in Great Falls); Custer 4; Dawson 6; Fergus 1; Flathead 1 (in Kalispell); Jefferson 1; Missoula 7 (2 in Missoula City); Park 1 (in Livingston); Powell 2; Silver Bow 18 (13 in Butte); Sweet Grass 2; Valley 1; total, 50; total last month, 33; total last October, 77.

SCARLATINA—Cases of Scarlet Fever were reported as follows: Carbon 1; Cascade 1 (in Great Falls); Dawson 3; Flathead 5 (3 in Kalispell); Gallatin 2 (both in Bozeman); Lewis and Clark 9 (2 in Helena); Madison 1; Missoula 3 (all in Missoula City); Powell 2; Ravalli 13; Rosebud 2; Silver Bow 5 (all in Butte); Sweet Grass 3; Yellowstone 1 (in Billings); total, 51; total last month, 27; total last October, 82.

MEASLES—Cases of Measles were reported as follows: Meagher 4; total, 4; total last month, 2; total last October, 70.

TYPHOID FEVER—Cases of Typhoid Fever were reported as follows: Carbon 17; Chouteau 2; Cascade 9 (8 in Great

Falls, 3 imported); Custer 10; Dawson 14; Fergus 6; Flathead 15 (2 in Kalispell); Gallatin 5 (all in Bozeman, imported); Lewis and Clark 1 (in Helena); Lincoln 5; Madison 1; Meagher 3; Missoula 21 (all in Missoula City, imported); Park 3 (1 in Livingston); Powell 6; Ravalli 1; Rosebud 2; Sanders 1; Silver Bow 12 (all in Butte); Yellowstone 36 (26 in Billings, 4 imported); Valley 8; total, 178; total last month, 163; total last October, 148.

COMMUNICABLE DISEASES REPORTED FOR THE MONTH OF NOVEMBER, 1909.

SMALLPOX—Cases of Smallpox were reported as follows: Dawson 1; Flathead 5; Jefferson 1; Lewis and Clark 1 (imported); Missoula 16 (11 in Missoula City); Park 2 (1 in Livingston); Powell 1; Ravalli 2; Silver Bow 45 (32 in Butte); total, 74; total last month, 33; total last November, 60.

DIPHTHERIA—Cases of Diphtheria were reported as follows: Broadwater 1; Carbon 10; Cascade 6 (5 in Great Falls); Custer 1; Dawson 9; Fergus 2; Lewis and Clark 2 (both in Helena); Missoula 6 (2 in Missoula City); Park 1 (in Livingston); Powell 3; Ravalli 3; Rosebud 1; Sanders 1; Silver Bow 42 (37 in Butte); Sweet Grass 2; Teton 2; Valley 3; Yellowstone 1 (in Billings); total, 96; total last month, 50; total last November, 97.

SCARLATINA—Cases of Scarlet Fever were reported as follows: Cascade 4 (3 in Great Falls); Chouteau 1; Dawson 3; Fergus 1; Flathead 4; Gallatin 6 (3 in Bozeman, 2 imported); Lewis and Clark 3 (all in Helena); Madison 1; Meagher 2; Powell 9; Ravalli 2; Rosebud 2; Sanders 2; Silver Bow 1; Sweet Grass 1; Yellowstone 1 (in Billings); total, 43; total last month, 51; total last November, 156.

MEASLES—Cases of Measles were reported as follows: Fergus 2; Lewis and Clark 3 (1 in Helena); Powell 5; total, 10; total last month, 4; total last November, 76.

TYPHOID FEVER—Cases of Typhoid Fever were reported as follows: Beaverhead 1; Broadwater 1; Carbon 5; Cascade 10 (8 in Great Falls, 2 imported); Dawson 5; Deer Lodge 2 (both in Anaconda); Flathead 6; Gallatin 2 (1 in Bozeman); Jefferson 1; Madison 7; Missoula 6 (all in Missoula City, 4 imported); Park 2 (1 in Livingston); Powell 3; Ravalli 1; Sanders 1; Silver Bow 17 (all in Butte); Valley 2; Yellowstone 14 (10 in Billings, 4 imported); total, 86; total last month, 178; total last November, 78.

MORTALITY

Deaths Reported to the State Board of Health for the Month of
October, 1909, Arranged According to Counties,

	Tuberculosis.....	Diphtheria.....	Scarlet Fever.....	Measles.....	Typhoid Fever....	Meningitis.....	Whooping Cough..	Pneumonia.....	Nephritis.....	Organic Heart Disease.....	Malignant Tumors	Acute Intestinal Diseases.....	Violence.....	Suicide.....	Alcoholism.....	All other Causes..	Totals.....
Beaverhead.....												1				1	1
Broadwater.....											1	1	1		1	2	6
Carbon.....					2			2								3	9
Cascade.....	1	2			2			2	1	3	1	4	2	1		15	34
Chouteau.....										1						5	6
Custer.....																	
Dawson.....		2			2							1	3		1	3	12
Deer Lodge.....									1	1	1	1	1			6	11
Fergus.....					1				1	1						2	5
Flathead.....	2									1	2	1	2			3	11
Gallatin.....	1								3	1		1				2	8
Granite.....																1	1
Jefferson.....						1						1				1	3
Lewis & Clark.....			2					2	4	1			6			3	18
Lincoln.....					1												1
Madison.....									1			1	1	1		1	5
Meagher.....								1								1	3
Missoula.....		3			2			2	1	5	1	2	1			5	22
Park.....																1	1
Powell.....								1		1	1		1			1	5
Ravalli.....									1			1				2	4
Rosebud.....																	
Sanders.....																	
Silver Bow.....	19	4			5	1	1	8	4	6	5	2	10	1		19	85
Sweet Grass.....													1			1	2
Teton.....										1		4				2	7
Valley.....		1							1							3	5
Yellowstone.....					2			2	2	1	1	4	4	1		7	24
Totals.....	23	12	2		17	2	1	20	19	23	13	25	36	4	2	90	289

Annual Death rate per 1,000; 12.33

Deaths rate per 100,000, 10.28

Deaths from principal causes in cities of 5,000 or more inhabitants

Anaconda.....								1	1	1	1	1	1			3	8
Billings.....							2	2	1		3	2	1			6	17
Bozeman.....	1							3								2	6
Butte.....	13	3			4	1	1	7	4	3	4	2	6	1		13	62
Great Falls.....		2			1			2	1	1	1	2	2	1		10	23
Helena.....		2	1					2	4	1			2			3	13
Kalispell.....																3	3
Livingston.....																1	1
Missoula.....		3			2			1		5	1	2				3	17

BIRTHS

Births Reported to the State Board of Health for October, 1909
and comparative birth and death rate in State.

	Males	Females	Totals	Deaths	Excess of Births	Excess of Deaths		Males	Females	Totals	Deaths	Excess of Births	Excess of Deaths
Beaverhead.....	1	1	2	1	1	...	Madison.....	7	4	11	5	6	...
Broadwater.....	3	2	5	4	...	1	Meagher.....	2	...	2	3	...	1
Carbon.....	11	15	26	9	17	...	Missoula.....	11	12	23	22	1	...
Cascade.....	33	21	54	34	20	...	Park.....	4	5	9	1	8	...
Choteau.....	9	8	17	6	11	...	Powell.....	7	2	9	5	4	...
Custer.....	5	8	13	...	13	...	Ravalli.....	8	6	14	4	10	...
Dawson.....	12	10	22	12	10	...	Rosebud.....	3	2	5	...	5	...
Deer Lodge.....	4	5	9	11	...	2	Sanders.....	4	1	5	...	5	...
Fergus.....	6	5	11	5	6	...	Silver Bow.....	39	32	71	85	...	14
Flathead.....	13	16	29	11	18	...	Sweetgrass.....	5	5	10	2	8	...
Gallatin.....	20	23	43	8	35	...	Teton.....	1	3	4	7	...	3
Granite.....	...	1	1	1	...	...	Valley.....	7	12	19	5	14	...
Jefferson.....	3	3	6	3	3	...	Yellowstone.....	23	22	45	24	21	...
Lewis and Clark.....	16	15	31	18	13	...	Totals.....	257	239	496	289	207	...
Lincoln.....	...	...	...	1	...	1							

Births in Cities of 5,000 or more inhabitants.

Anaconda.....	4	5	9	8	1	...	Great Falls.....	23	14	37	23	14	...
Billings.....	16	19	35	17	18	...	Helena.....	12	12	24	13	11	...
Bozeman.....	9	10	19	6	13	...	Kalispell.....	4	6	10	3	7	...
Butte.....	30	26	56	62	...	6	Livingston.....	4	4	8	1	7	...
							Missoula.....	5	7	12	17	...	5

MORTALITY.

Deaths Reported to the State Board of Health for the Month
of November, 1909, Arranged According to Counties.

	Tuberculosis	Diphtheria	Scarlet Fever	Measles	Typhoid Fever	Meningitis	Whooping Cough	Pneumonia	Nephritis	Organic Heart Disease	Malignant Tumors	Acute Intestinal Diseases	Violence	Suicide	Alcoholism	All Other Causes	Totals
Beaverhead	1							1	1			2	1			1	6
Broadwater	1							1		1	1						4
Carbon		1			1								2			4	8
Cascade	1	1			2	1		1	2	2			3	1		10	24
Chouteau								1					1			1	3
Custer	1							1					1	1		3	5
Dawson	1	3				1				1	1					3	11
Deer Lodge					1			2						1		5	9
Fergus	1							1	1				1			2	5
Flathead	2				2			1	2	2			1			1	11
Gallatin	1		1					1	1	1		1	1			4	11
Granite						1		1								2	4
Jefferson								1	1						1	1	3
Lewis and Clark	1				2			2	1	1	1		1			14	23
Lincoln										5			1				6
Madison					1					1	1		1			3	6
Meagher	1							2	1	3	1		4		1	3	15
Missoula								2	1	3	1		4		1	3	15
Park	2							2	1	1	1	1	1			5	11
Powell			1		1			2		2	1		2				9
Ravalli			1					2								2	5
Rosebud		1										1					2
Sanders			1							1			1			1	4
Silver Bow	18	6						7	5	4	1	1	8	1	2	15	68
Sweet Grass			1													3	4
Teton													1			2	3
Valley		1				1		1									3
Yellowstone	1				3	1		2		1	1		2			8	19
Total	32	13	5		14	4		26	16	25	10	6	34	4	4	92	285

Annual death rate per 1,000, 12.20.

Death rate per 100,000, 10,178.

DEATHS FROM PRINCIPAL CAUSES IN CITIES OF 5,000 OR MORE INHABITANTS.

Anaconda					1			2						1		1	5
Billings					3	1		1			1					8	14
Bozeman	1		1					1	1							1	5
Butte	12	4						5	5	4	1	1	4	1	1	12	50
Great Falls	1	1			2	1		1		2			1	1		6	16
Helena	1				2			2	1	5	1					11	23
Kalispell	2				1				2	2							7
Livingston	2									1	1					3	7
Missoula								1	1	3	1		2		1	1	10

BIRTHS.

Births Reported to the State Board of Health for November,
1909, and Comparative Birth and Death Rate in State.

	Males	Females	Totals	Deaths	Excess of Births	Excess of Deaths		Males	Females	Totals	Deaths	Excess of Births	Excess of Deaths
Beaverhead	7	6	13	6	7	...	Madison	5	7	12	6	6	...
Broadwater .....	...	4	4	4	...	...	Meagher	2	2	4	3	1	...
Carbon	19	24	43	8	35	...	Missoula	23	15	38	15	23	...
Cascade	24	27	51	24	27	...	Park	13	9	22	11	11	...
Chouteau	11	6	17	3	14	...	Powell	6	4	10	9	1	...
Custer	1	7	8	5	3	...	Ravalli	12	12	24	5	19	...
Dawson	9	10	19	11	8	...	Rosebud	3	1	4	2	2	...
Deer Lodge	10	14	24	9	15	...	Sanders	1	3	4	4	...	...
Fergus	15	21	36	5	31	...	Silver Bow	35	40	75	68	7	...
Flathead	17	13	30	11	19	...	Sweet Grass	2	1	3	4	...	1
Gallatin	9	5	14	11	3	...	Teton	3	5	8	3	5	...
Granite	2	1	3	4	...	1	Valley	9	5	14	3	11	...
Jefferson .....	...	2	2	3	...	1	Yellowstone	26	17	43	19	14	...
Lewis and Clark	16	19	35	23	12	...	Totals	282	284	566	285	281	...
Lincoln	2	4	6	6	...	...					

BIRTHS IN CITIES OF 5,000 OR MORE INHABITANTS.

Anaconda	10	14	24	5	19	...	Helena	14	16	30	23	7	...
Billings	15	13	28	14	14	...	Kalispell	6	6	12	7	5	...
Bozeman	2	1	3	5	...	2	Livingston	10	6	16	7	9	...
Butte	25	25	50	50	...	...	Missoula	14	11	25	10	15	...
Great Falls	17	22	39	16	23	...							